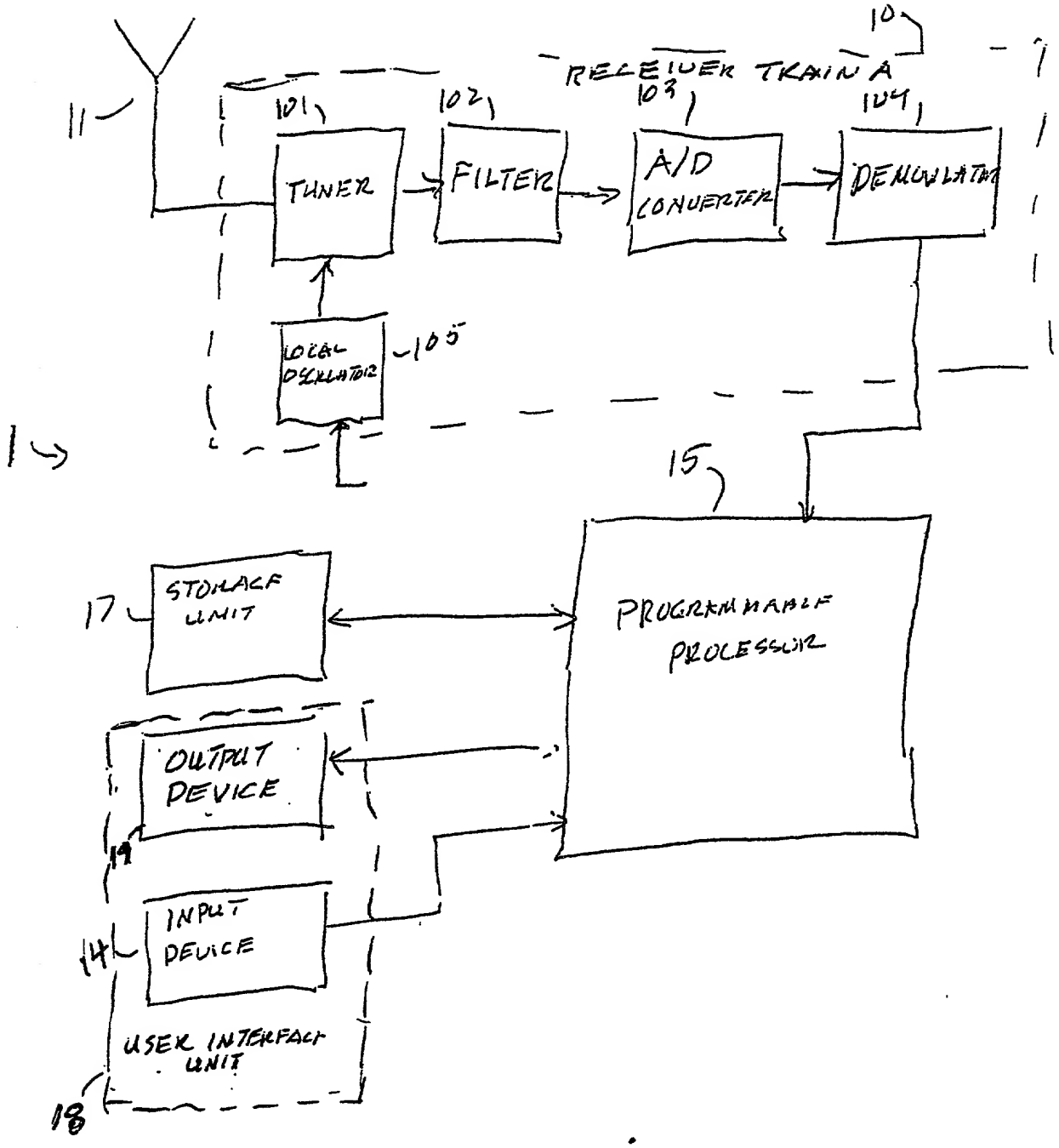
10
RECEIVER TRAIN A
11
101
TUNER
102
FILTER
103
A/D CONVERTER
104
DEMODULATOR
LOCAL OSCILLATOR
105
1
15
17
STORAGE UNIT
PROGRAMMABLE PROCESSOR
OUTPUT DEVICE
19
INPUT DEVICE
14
USER INTERFACE UNIT
18

Fig. 1

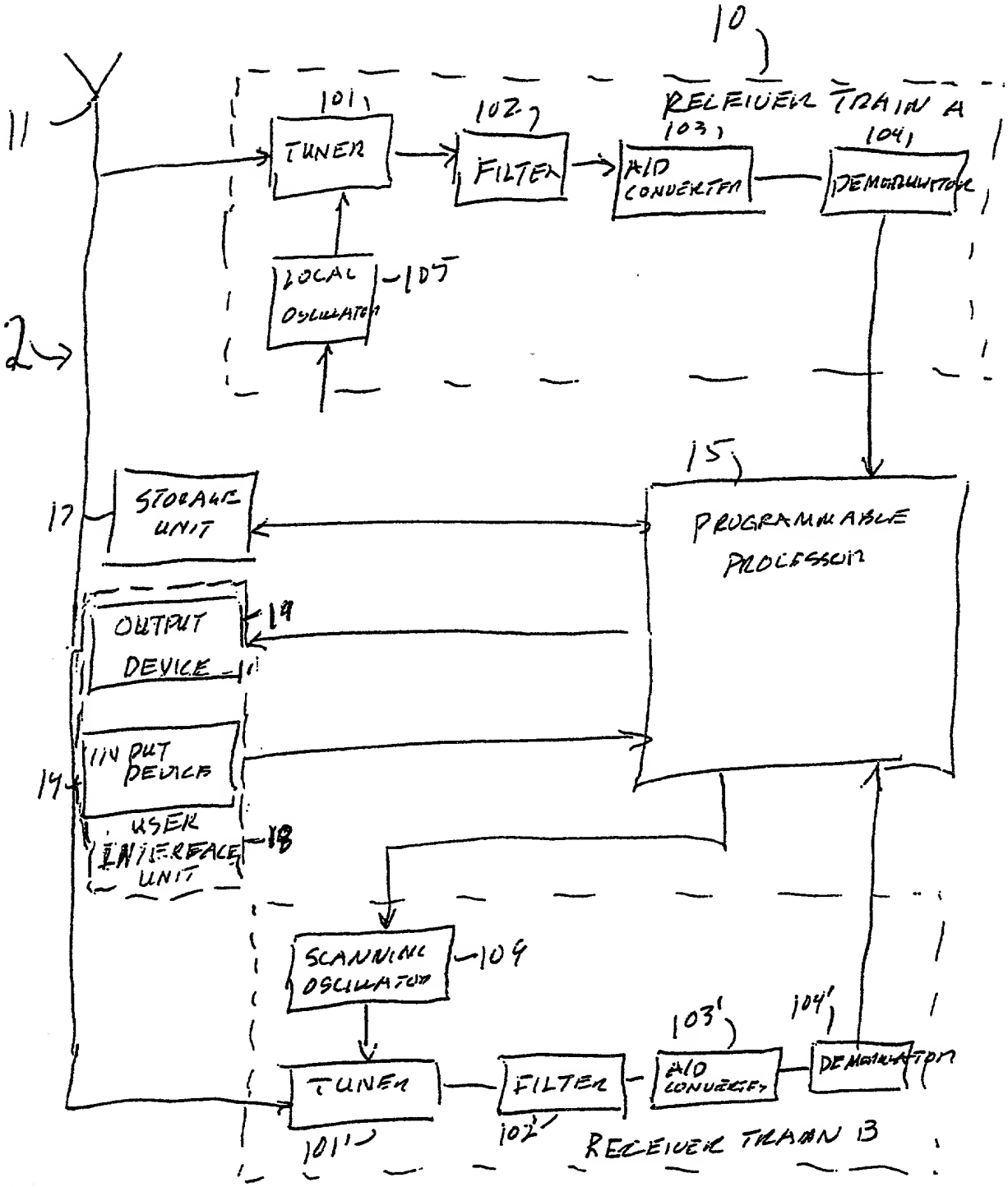
10
RECEIVER TRAIN A
11
101
TUNER
102
FILTER
103
A/D CONVERTER
104
DEMODULATOR
LOCAL OSCILLATOR
105
2
15
17
STORAGE UNIT
PROGRAMMABLE PROCESSOR
OUTPUT DEVICE
19
INPUT DEVICE
14
USER INTERFACE UNIT
18
SCANNING OSCILLATOR
109
103'
104'
TUNER
FILTER
A/D CONVERTER
DEMODULATOR
101'
102'
RECEIVER TRAIN B

Fig. 2

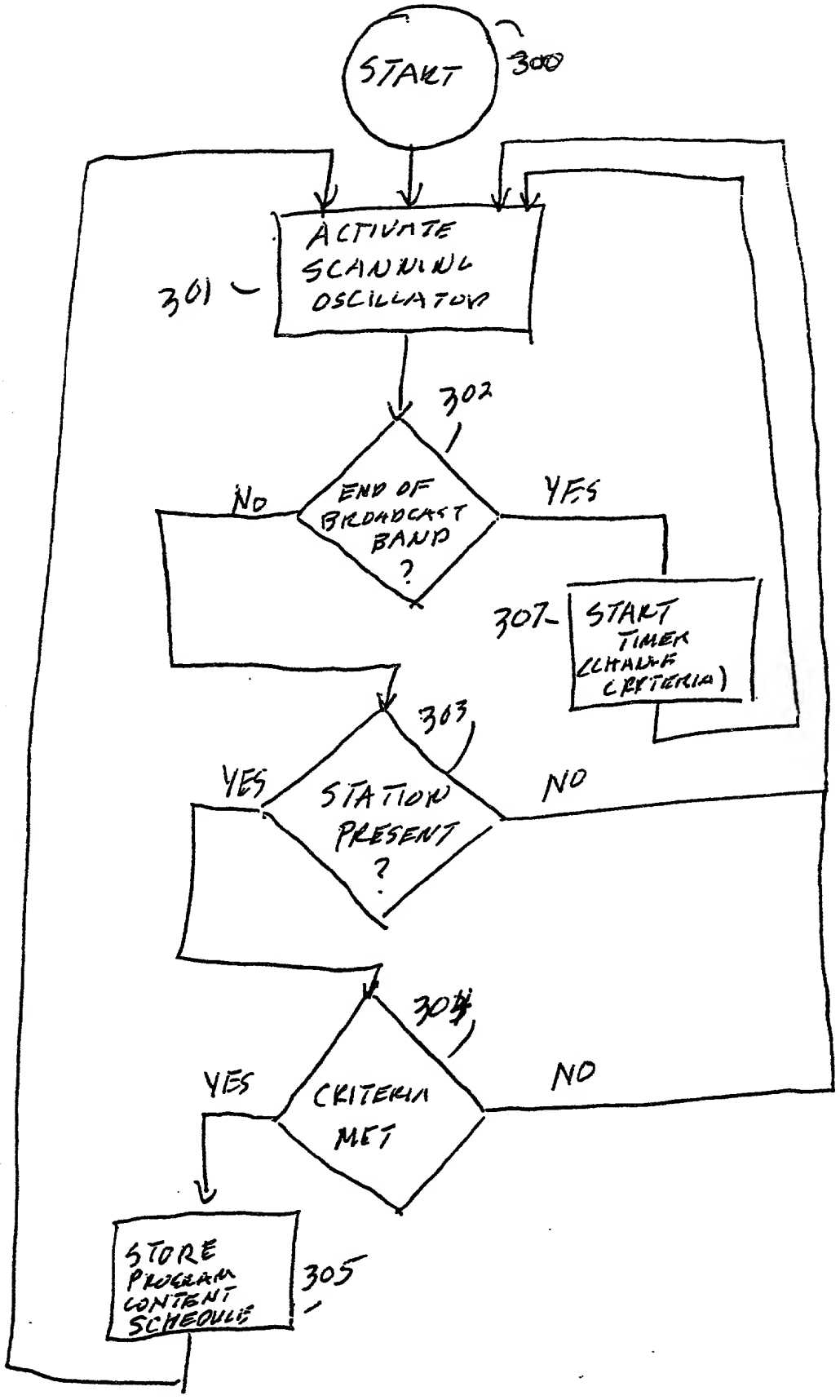
START
300
ACTIVATE SCANNING OSCILLATOR
301
302
END OF BROADCAST BAND ?
NO
YES
307
START TIMER (CHANGE CRITERIA)
303
STATION PRESENT ?
YES
NO
304
CRITERIA MET
YES
NO
STORE PROGRAM CONTENT SCHEDULE
305

Fig. 3

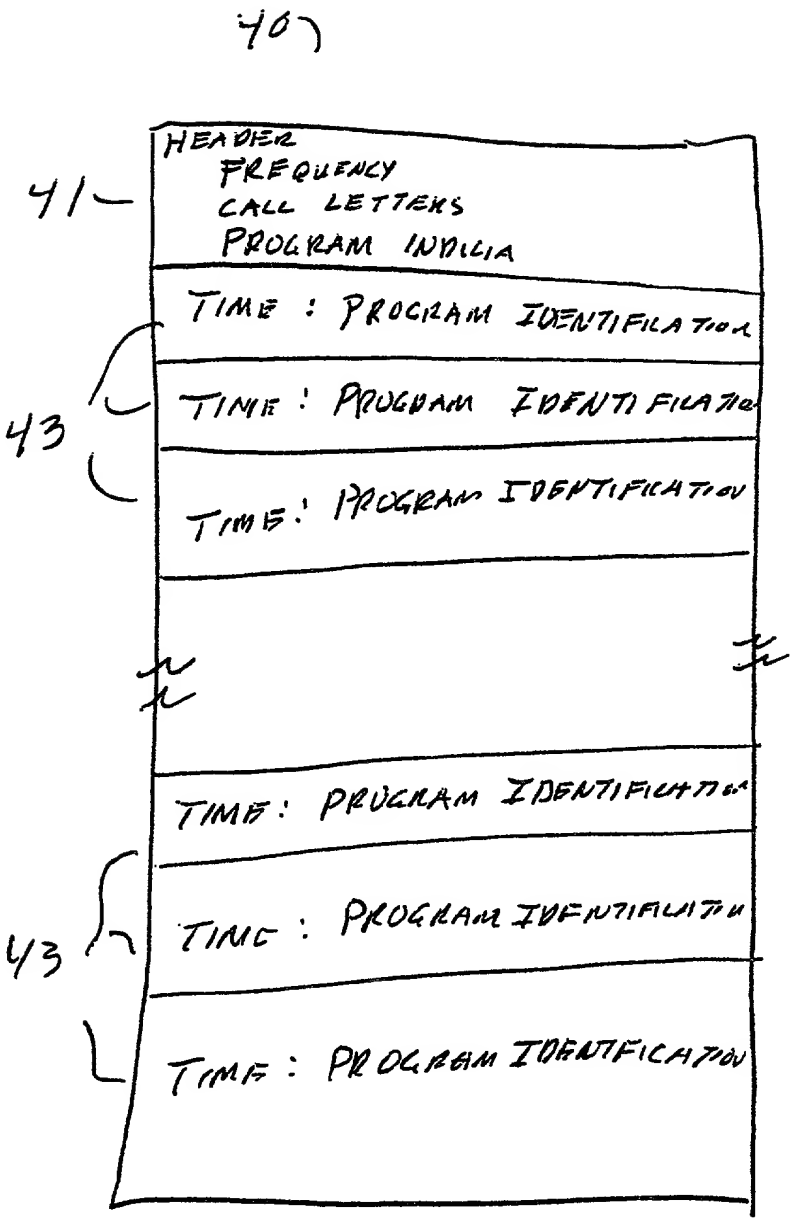
40
41
HEADER
FREQUENCY
CALL LETTERS
PROGRAM INDICIA
TIME : PROGRAM IDENTIFICATION
TIME : PROGRAM IDENTIFICATION
TIME : PROGRAM IDENTIFICATION
43
TIME : PROGRAM IDENTIFICATION
TIME : PROGRAM IDENTIFICATION
43
TIME : PROGRAM IDENTIFICATION

Fig. 4

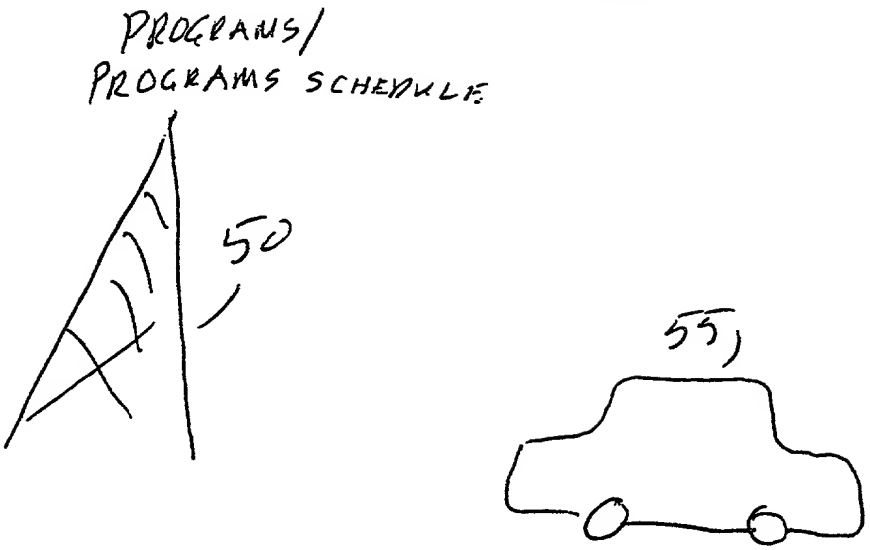

Fig. 5A

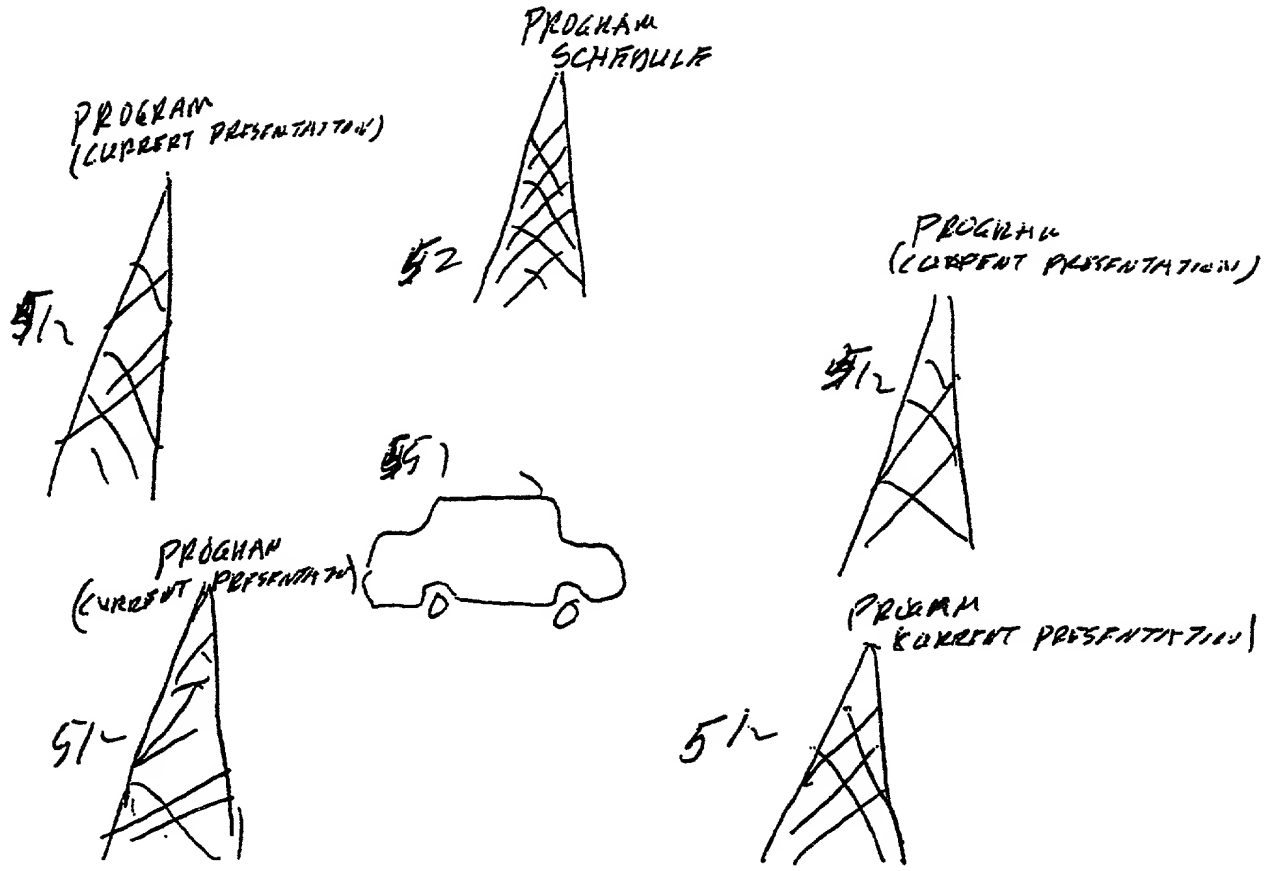
PROGRAM
(CURRENT PRESENTATION)
51
PROGRAM
SCHEDULE
52
55
PROGRAM
(CURRENT PRESENTATION)
51
PROGRAM
(CURRENT PRESENTATION)
51
PROGRAM
(CURRENT PRESENTATION)
51

Fig. 5B

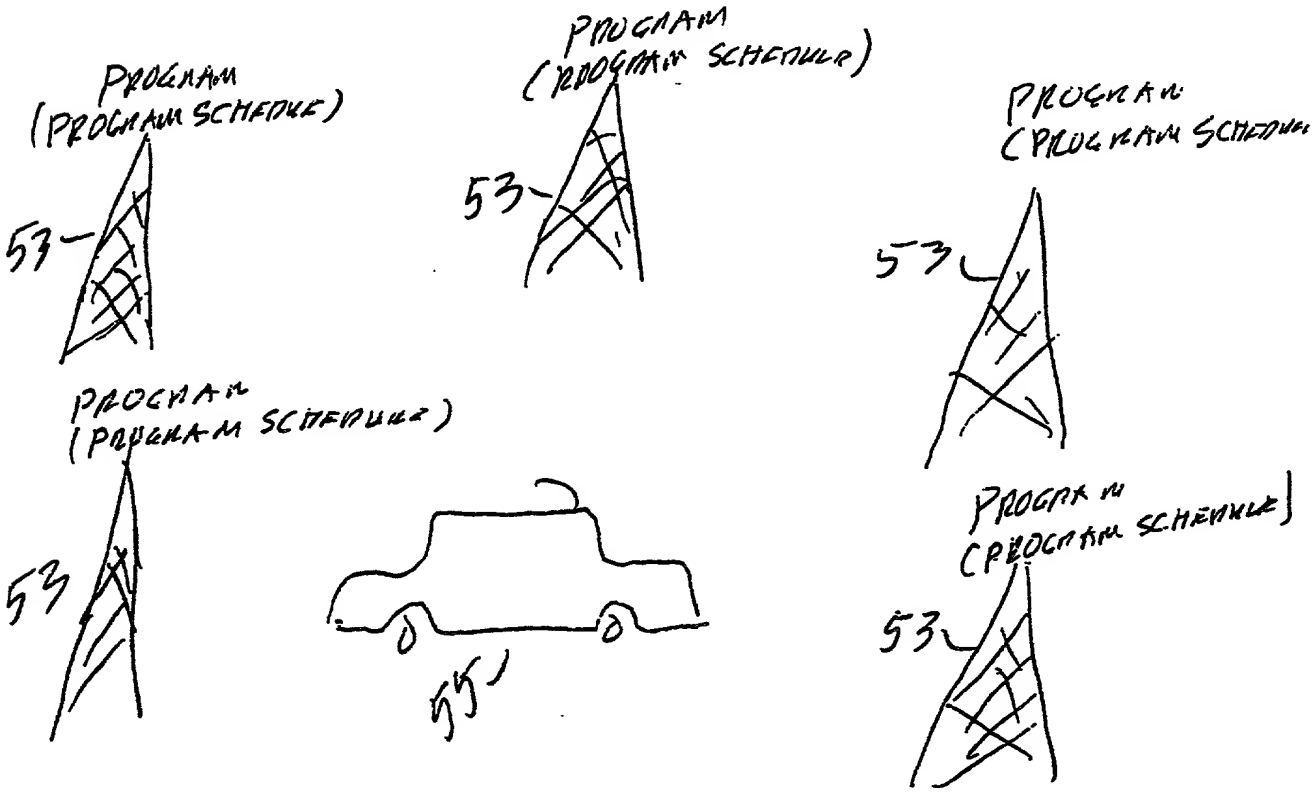
PROGRAM
(PROGRAM SCHEDULE)
53
PROGRAM
(PROGRAM SCHEDULE)
53
PROGRAM
(PROGRAM SCHEDULE)
53
PROGRAM
(PROGRAM SCHEDULE)
53
55
PROGRAM
(PROGRAM SCHEDULE)
53

Fig. 5C

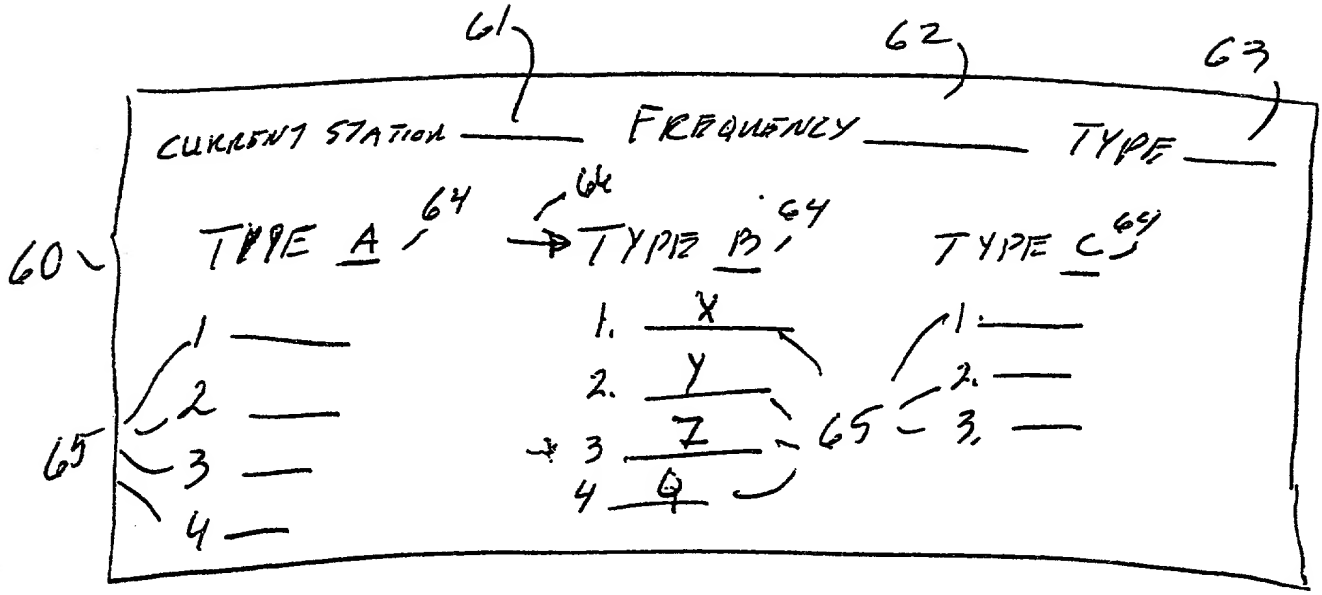
61
62
63
CURRENT STATION
FREQUENCY
TYPE
60
TYPE A
64
66
TYPE B
64
TYPE C
64
1
2
3
4
65
1. X
2. Y
3 Z
4 Q
65
1
2
3

Fig. 6A

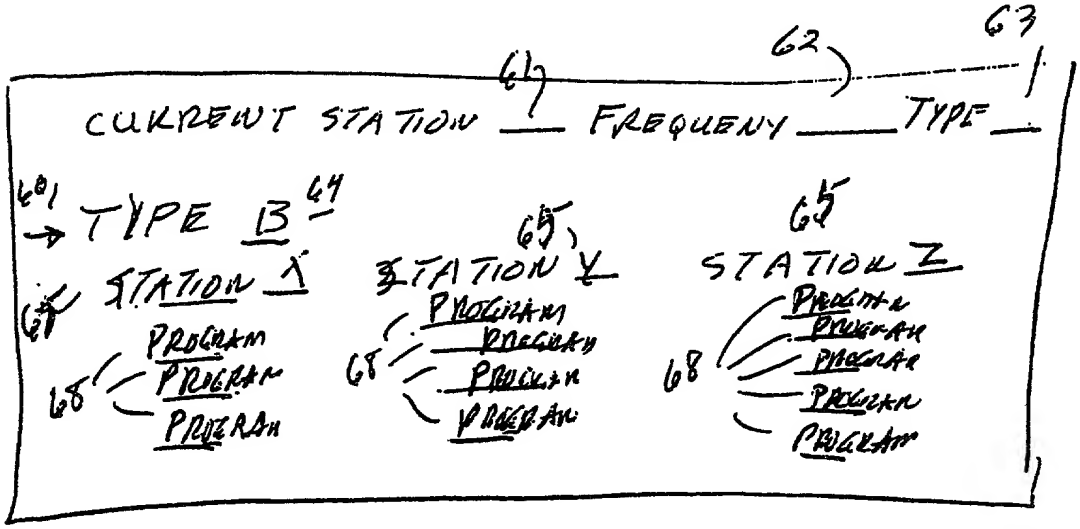
63
62
61
CURRENT STATION
FREQUENY
TYPE
61
TYPE B
64
STATION X
STATION Y
STATION Z
65
65
65
PROGRAM
PROGRAM
PROGRAM
68
68
68

Fig. 6B

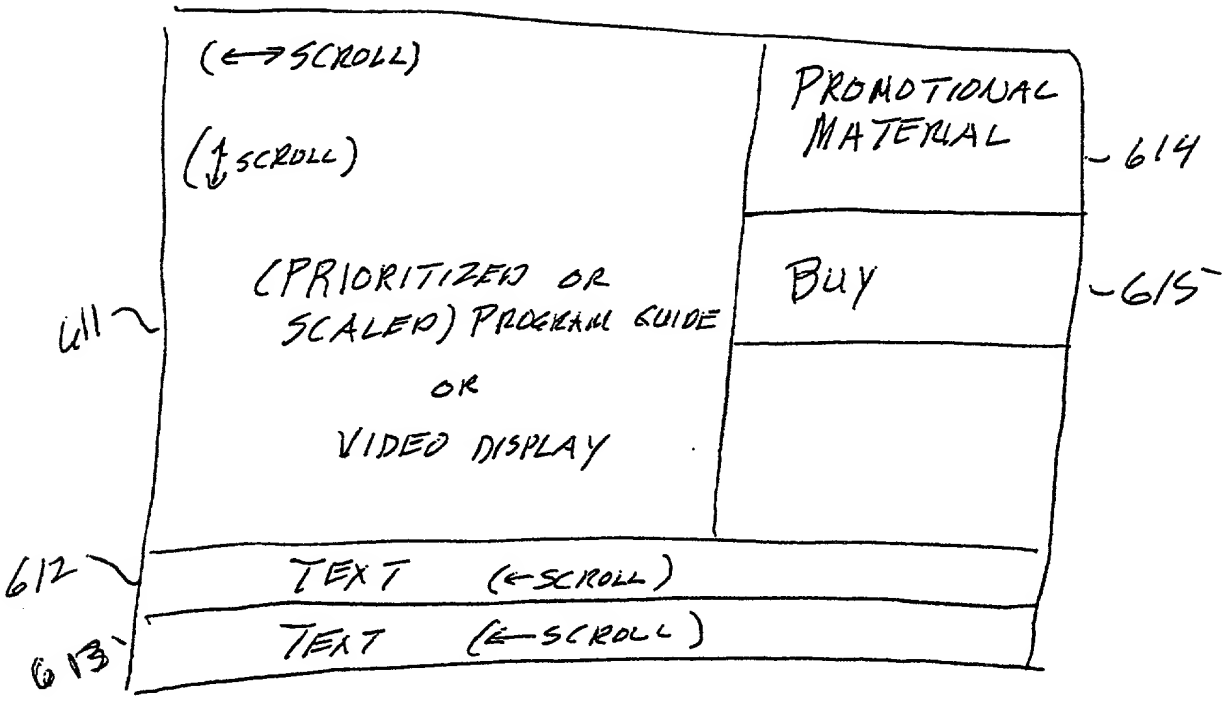
(↔SCROLL)
(↕SCROLL)
PROMOTIONAL MATERIAL
614
(PRIORITIZED OR SCALED) PROGRAM GUIDE
OR
VIDEO DISPLAY
611
BUY
615
612
TEXT (←SCROLL)
613
TEXT (←SCROLL)

Fig. 6C

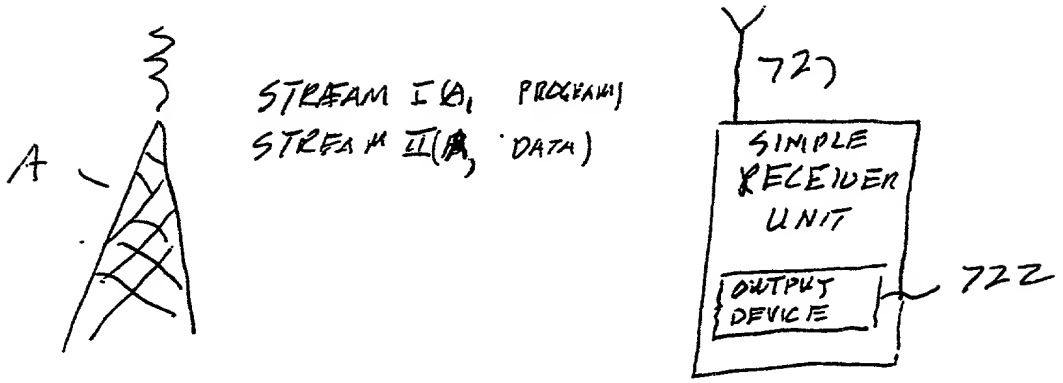
A
STREAM I (A, PROGRAM)
STREAM II (A, DATA)
72
SIMPLE RECEIVER UNIT
OUTPUT DEVICE
722

Fig. 7A

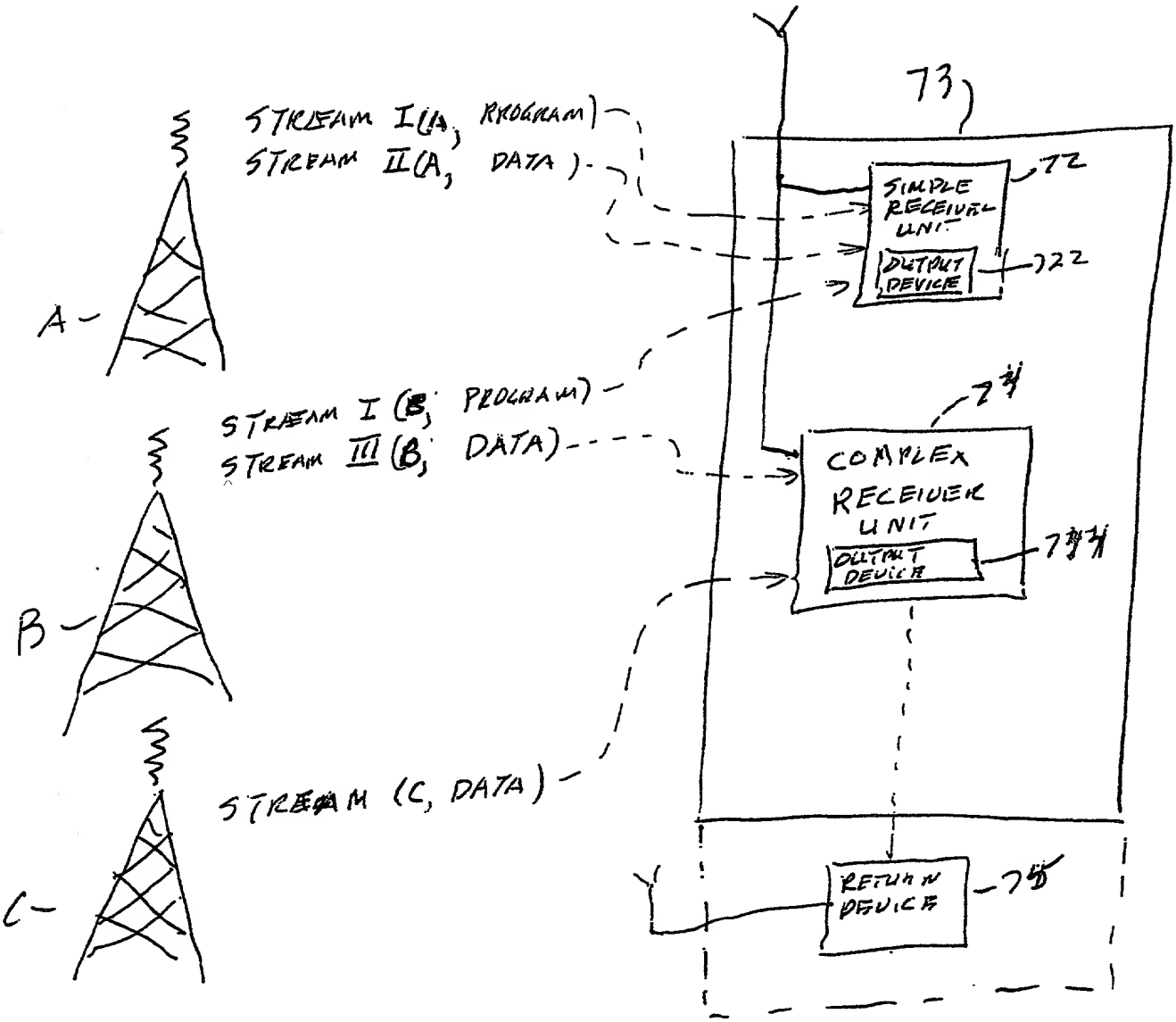
A
B
C
STREAM I (A, PROGRAM)
STREAM II (A, DATA)
STREAM I (B, PROGRAM)
STREAM III (B, DATA)
STREAM (C, DATA)
73
SIMPLE RECEIVER UNIT
OUTPUT DEVICE
722
COMPLEX RECEIVER UNIT
OUTPUT DEVICE
RETURN DEVICE

Fig. 7B